

Notice of Allowability	Application No.	Applicant(s)
	09/890,249	KIM ET AL.
	Examiner	Art Unit
	Prenell P. Jones	2616
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to 10/11/06.		
2. ☑ The allowed claim(s) is/are <u>1,4-6 and 10-12</u> .		
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1) 	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C	Office action of
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amenda 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), re
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Reason for Allowance

1. Claims 1, 4-6 and 10-12 are allowed over prior art.

The following is statement for reason for allowable subject matter. Applicant has amended previously rejected claims 1, 4, 5 and 6 to include previously indicated allowable subject matter associated with claims 3-6 and 10-12. Furthermore, Applicant canceled previously rejected claims 2 and 7-9, and previously objected to claim 3.

The prior art fail to teach or suggest with respect to claim 4, orthogonal complex-domain spreading is performed with Hadamard codes and the scrambling codes for complex-domain scrambling are produced using orthogonal Hadamard codes, with respect to claim 5, orthogonal complex-domain spreading is performed with Walsh codes and the scrambling codes for the complex-domain scrambling are produced using orthogonal Hadamard codes, with respect to claim 6, orthogonal complex-domain spreading is performed with Gold codes and the scrambling codes for the complex-domain scrambling are produced using orthogonal Hadamard codes, with respect to claim 10 and 11, two complex multipliers wherein the first complex multiplier performs a first orthogonal complex-domain spreading with the input of the transmitting data of the supplemental channels of the OVSF codes, and a second complex multipliers for adding modulated signals and correcting phase of de-spread signal, and with respect to claim 1, when the spreading data do not vary, wherein;

$$C_{\text{scramble}, 1}[n] + j C_{\text{scramble}, Q}[n] = -C_2[n] C_{\text{scramble}, Q}(n-1) H_b[n-1] H_b[n] + j$$

$$C_2[n] C_{\text{scramble}, 1}[n-1] H_a[n-1] H_a[n].$$

and when the spreading data vary, wherein;

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 $C_{\text{scramble, I}}[n] + j C_{\text{scramble, Q}}[n] = C_{\text{I}}[n] + C_{2}[n]$

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prenell P. Jones whose telephone number is 571-272-3180. The examiner can normally be reached on 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Prenell P. Jones

November 11, 2006

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ELIPERVISORY PATENT EXAMINER

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